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- (71) Applicant (for all designated States except US): **ISIS INNOVATION LIMITED** [GB/GB]; Ewert House, Ewert Place, Summertown, Oxford OX2 7SG (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): **DAVIS, Benjamin, Guy** [GB/GB]; Chemistry Research Laboratory, 12 Mansfield Road, Oxford OX1 3TA (GB). **GAMBLIN, David, Phillip** [GB/GB]; Chemistry Research Laboratory, 12 Mansfield Road, Oxford OX1 3TA (GB). **FAIRBANKS, Anthony, John** [GB/GB]; Chemistry Research Laboratory, 12 Mansfield Road, Oxford OX1 3TA (GB). **GARNIER, Philippe** [FR/GB]; Chemistry Research Laboratory, 12 Mansfield Road, Oxford OX1 3TA (GB).
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(57) Abstract: Methods and reagents for the formation of disulfide bonds, particularly in proteins, peptides and amino acids. The methods and reagents are particularly useful for the controlled glycosylation of proteins, peptides and amino acids. The methods utilise thiosulfonate or selenenylsulfide compounds as reagents or intermediates. Some proteins and peptides comprising selenenylsulfide groups also form part of the invention.

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